## Perception & Psychophysics

Charles W. Eriksen, Editor University of Illinois, Urbana-Champaign

Associate Editors

Edward C. Carterette
University of California, Los Angeles
Robert Fox
Vanderbilt University
Alfred B. Kristofferson
McMaster University

Herschel W. Leibowitz
Pennsylvania State University
David Pisoni
Indiana University, Bloomington
Martha Teghtsoonian
Smith College

### **Consulting Editors**

Lorraine Allan, McMaster University William P. Banks, Pomona College Linda M. Bartoshuk, J. B. Pierce Foundation, Yale University Ira H. Bernstein, University of Texas, Arlington Elizabeth L. Bjork, University of California, Los Angeles Randolph Blake, Northwestern University John Lott Brown, University of South Florida Emanuel Donchin, University of Illinois, Champaign S. M. Ebenholtz, University of Wisconsin, Madison Howard E. Egeth, Johns Hopkins University Trygg Engen, Brown University William Epstein, University of Wisconsin, Madison Barbara A. Eriksen, University of Illinois, Champaign Wendell R. Garner, Yale University Barbara Gillam, SUNY, State College of Optometry Walter C. Gogel, University of California, Santa Barbara David M. Green, Harvard University

Lewis O. Harvey, Jr., University of Colorado James E. Hoffman, University of Delaware Tarow Indow, Keio University, Tokyo John Jonides, University of Michigan Ronald Kinchla, Princeton University Sylvan Kornblum, University of Michigan Joseph S. Lappin, Vanderbilt University Willard D. Larkin, University of Maryland Barry Leshowitz, Arizona State University Gregory R. Lockhead, Duke University Dominic Massaro, University of Wisconsin, Madison James L. McClelland, University of California, San Diego W. Trammell Neill, University of South Florida Ray Over, University of Queensland, Australia Robert W. Sekuler, Northwestern University Keith White, University of Florida Eugene R. Wist, Franklin and Marshall College

Anne Matson Dossett Managing Editor

Volume 27

Published monthly by
THE PSYCHONOMIC SOCIETY, Inc., 1108 West 34th Street, Austin, Texas 78705
Publication No. 427920 (ISSN 0031-5117)
Second Class Postage paid at Austin, Texas 78710
Copyright 1980 by THE PSYCHONOMIC SOCIETY, Inc.

## STAFF IN CHAMPAIGN

Gitta Bridges

### STAFF IN AUSTIN

Kristine A. Cummings Valerie K. Foster Barbara Gregg Dreanne M. Grenier Virginia T. Hagerty John J. Hartzell, Jr. E. Melanie W. Kittrell Patricia J. Kittrell Patricia E. Plowman Mary K. Plowman Robert P. Sanford Sharon Tarver Roberta Thiessen Rodney G. Webre C. E. Wheeless

## **CONTENTS OF VOLUME 27**

Babkoff, H. Dichotic temporal interactions:  Nonmonotonic discrimination function  Panks, W. P., & Barbar, G. Normal iconics	273	DeVido, C. J. See Stitt, C. L. Diehl, R. L., Souther, A. F., & Convis, C. L. Conditions on rate normalization in speech	
Banks, W. P., & Barber, G. Normal iconic memory for stimuli invisible to the rods	581	perception	435
Barber, G. See Banks, W. P.		Dusoir, A. E. Some evidence on additive learn-	
Barnes, R. D. See Streibel, M. J. Benignus, V. A., & Prah, J. D. Flow thresholds of nonodorous air through the human naris		Ebenholtz, S. M. See Streibel, M. J. Edwards, R. S. See Poulton, E. C.	163
as a function of temperature and humidity Bertelson, P. See Morais, J.	569	Egeth, H. E. See Francolini, C. M. Egeth, H. E. See Santee, J. L.	
Blake, R., Breitmeyer, B., & Green, M. Con-		Elman, J. L. Intonation-contingent adaptation	
trast sensitivity and binocular brightness:		to speech	258
Dioptic and dichoptic luminance conditions.	180	Erickson, D. M. See Fitch, H. L.	
Blake, R., Martens, W., Garrett, A., &		Evans, P. See Lovegrove, W.	
Westendorf, D. Estimating probability sum-		Farmer, E. W., & Taylor, R. M. Visual search	
mation for binocular reaction time data	375	through color displays: Effects of target-	
Blake, R. See Martens, W.		background similarity and background uni-	0.00
Bogartz, R. S. Some functional measurement		formity	267
procedures for determining the psychophys-	204	Fitch, H. L., Halwes, T., Erickson, D. M., &	
Power P W & Markell K A Temporal	284	Liberman, A. M. Perceptual equivalence of	343
Bowen, R. W., & Markell, K. A. Temporal brightness enhancement studied with a large		two acoustic cues for stop-consonant manner Fowler, C. A. See Tuller, B.	343
sample of observers: Evidence for individual		Fowler, T. J. See Poulton, E. C.	
differences in brightness perception	465	Fox, R. See Staller, J. D.	
Bowling, A., & Lovegrove, W. The effect of	102	Francolini, C. M., & Egeth, H. E. On the non-	
stimulus duration on the persistence of grat-		automaticity of "automatic" activation: Evi-	
ings	574	dence of selective seeing	331
Bowling, A. See Lovegrove, W.		Frijters, J. E. R., Kooistra, A., & Vereijken,	
Braunstein, M. L., & Stern, K. R. Static and		P. F. G. Tables of d' for the triangular	
dynamic factors in the perception of rotary		method and the 3-AFC signal detection pro-	
motion	313	cedure	176
Breitmeyer, B. See Blake, R.		Garrett, A. See Blake, R.	
Brooke, J. B., & MacRae, A. W. Error patterns		Geyer, L. H. See Gupta, S. M.	
in judgment and production of horizontal	205	Gold, F. M. See Lockhead, G. R.	
and vertical scale positions	295	Gomez, L. M. See Robertson, L. C.	
Bumberry, J. See Salthouse, T. A. Carello, C. See Mark, L. S.		Goolkasian, P. Cyclic changes in pain percep-	499
Cary, L. See Morais, J.		Green, D. M., Luce, R. D., & Smith, A. F.	477
Coltheart, M. Iconic memory and visible per-		Individual magnitude estimates for various	
sistence	183	distributions of signal intensity	483
Convis, C. L. See Diehl, R. L.		Green, M. See Blake, R.	105
Costall, A. See Riley, D.		Gupta, S. M., & Geyer, L. H. On tactile and	
Curtis, D. W., & Rule, S. J. Fechner's paradox		visual recognition	579
reflects a nonmonotone relation between		Halwes, T. See Fitch, H. L.	
binocular brightness and luminance	263	Hardzinski, M., & Pachella, R. G. The manip-	
Cutting, J. E. See Remez, R. E.		ulation of stimulus quality and the definition	
Day, R. H., & Jory, M. K. A note on a second		of stimulus encoding operations in memory	
stage in the formation of illusory contours	89	scanning experiments	232
Derr, M. A., & Massaro, D. W. The contribu-		Harter, M. R. See Towle, V. L.	
tion of vowel duration, $F_0$ contour, and frica-		Harwerth, R. S., Smith, E. L., III, & Levi,	
tion duration as cues to the /juz/-/jus/ dis-	51	D. M. Suprathreshold binocular interactions	42

Heller, M. A. Tactile retention: Reading with		Massaro, D. W. See Derr, M. A.	
the skin	125	Mikaelian, H. H. Effective luminance contrast	
Hines, H. See Mark, L. S.		as a parameter in contingent aftereffects	531
Hoffman, H. S. See Stitt, C. L.		Misceo, G. See Uhlarik, J.	
Hollins, M. The effect of contrast on the com-		Moffitt, K. Evaluation of the fixation duration	
pleteness of binocular rivalry suppression	550	in visual search	370
Hopkins, G. W., & Kristofferson, A. B. Ultra-		Morais, J., Cary, L., Vanhaelen, H., &	
stable stimulus-response latencies: Acquisi-		Bertelson, P. Postural determinants of frontal-	
tion and stimulus control	241	position advantage in listening to speech	141
Howell, P. Vowel-contingent feature detection	37	Newsome, S. L. See Paap, K. R.	
Inhoff, A. W., & Rayner, K. Parafoveal word		Nusbaum, H. C. See Sawusch, J. R.	
perception: A case against semantic process-		O'Hara, W. P. Evidence in support of word	
ing	457	uratization	390
Johnson, R. C. See Lockhead, G. R.		O'Leary, A., & Wallach, H. Familiar size and	
Johnston, M. B. See Salthouse, T. A.		linear perspective as distance cues in stereo-	
Jordan, K. See Uhlarik, J.		scopic depth constancy	131
Jory, M. K. See Day, R. H.		O'Leary, A., & Wallach, H. Adaptation in	
Julness, G. D. See Streibel, M. J.		stereoscopic depth constancy	403
Kaess, D. W. Instructions and decision times of		Osaka, N. Brightness exponent as a function of	
size-constancy responses	477	retinal eccentricity in the peripheral visual	
Kleinman, D. See Wastell, D. G.		field: Effects of dark and light adaptation	519
Kolditz, T. A. See Salthouse, T. A.		Paap, K. R., & Newsome, S. L. A perceptual-	
Kooistra, A. See Frijters, J. E. R.		confusion account of the WSE in the target	
Kowler, E., & Sperling, G. Transient stimula-		search paradigm	444
tion does not aid visual search: Implications		Pachella, R. G. See Hardzinski, M.	
for the role of saccades	1	Pantle, A. J., & Fetersik, J. T. Effects of spa-	
Kristofferson, A. B. A quantal step function in		tial parameters on the perceptual organiza-	
duration discrimination	300	tion of a bistable motion display	307
Kristofferson, A. B. See Hopkins, G. W.		Petersik, J. T. Rotation judgments and depth	
Lappin, J. S. See Staller, J. D.		judgments: Separate or dependent processes?	588
Lester, C. F. See Redding, G. M.		Petersik, J. T. See Pantle, A. J.	
Levi, D. M. See Harwerth, R. S.		Pittenger, J. B. See Mark, L. S.	
Liberman, A. M. See Fitch, H. L.		Pollatsek, A. See Rayner, K.	
Lockhead, G. R., Johnson, R. C., & Gold, F. M.		Poulton, E. C., Edwards, R. S., & Fowler, T. J.	
Saltation through the blind spot	545	Eliminating subjective biases in judging the	
Lovegrove, W., & Evans, P. Color-selective		loudness of a 1-kHz tone	93
adaptation in contrast thresholds for detect-		Prah, J. D. See Benignus, V. A.	
ing the form but not the motion in moving		Prather, P. See Swinney, D. A.	
gratings	585	Previc, F. H. See Towle, V. L.	
Lovegrove, W., Mapperson, B., & Bowling, A.		Pringle, R. See Uhlarik, J.	
Presence and absence of color selectivity in		Rayner, K., Well, A. D., & Pollatsek, A.	
the motion aftereffect	33	Asymmetry of the effective visual field in	
Lovegrove, W. See Bowling, A.		reading	537
Luce, R. D. See Green, D. M.		Rayner, K. See Inhoff, A. W.	
MacRae, A. W. See Brooke, J. B.		Redding, G. M., & Lester, C. F. Achromatic	
Mapperson, B. See Lovegrove, W.		color matching as a function of apparent tar-	
Mark, L. S., Pittenger, J. B., Hines, H.,		get orientation, target and background lumi-	
Carello, C., Shaw, R. E., & Todd, J. T.		nance, and lightness or brightness instructions.	557
Wrinkling and head shape as coordinated		Remez, R. E. Susceptibility of a stop consonant	
sources of age-level information	117	to adaptation on a speech-nonspeech contin-	
Markell, K. A. See Bowen, R. W.		uum: Further evidence against feature detec-	
Marks, L. E. Binaural summation of loudness:	400	tors in speech perception	17
Noise and two-tone complexes	489	Remez, R. E., Cutting, J. E., Studdert-Kennedy,	
Marks, L. E. See Stevens, J. C.		M. Cross-series adaptation using song and	
Martens, W., & Blake, R. Uncertainty impairs grating detection performance in the cat	220	string	524
Martens, W. See Blake, R.	229	Riley, D., & Costall, A. Comments on "Recog-	
Martens, W. See Blake, K.		nition of faces in the presence of two-dimen-	

Robertson, L. C., & Gomez, L. M. Figural vs. configural effects in the filled duration illusion
sion
Todd, J. T. See Mark, L. S.  Towle, V. L., Harter, M. R., & Previc, F. H.  Binocular interaction of orientation and spatial frequency channels: Evoked potentials and observer sensitivity
change as warning events
Ross, S. M. See Ross, L. E. Rule, S. J. See Curtis, D. W. Salthouse, T. A., Kolditz, T. A., Bumberry, J., & Johnston, M. B. An illusion of ingestion
Rule, S. J. See Curtis, D. W. Salthouse, T. A., Kolditz, T. A., Bumberry, J., & Johnston, M. B. An illusion of ingestion
Salthouse, T. A., Kolditz, T. A., Bumberry, J., & Johnston, M. B. An illusion of ingestion
& Johnston, M. B. An illusion of ingestion
Santee, J. L., & Egeth, H. E. Interference in letter identification: A test of feature-specific inhibition
letter identification: A test of feature-specific inhibition
inhibition
Sawusch, J. R., Nusbaum, H. C., & Schwab, E. C. Contextual effects in vowel perception II: Evidence for two processing mechanisms. Schiepers, C. Response latency and accuracy in visual word recognition
E. C. Contextual effects in vowel perception II: Evidence for two processing mechanisms. Schiepers, C. Response latency and accuracy in visual word recognition
II: Evidence for two processing mechanisms.  Schiepers, C. Response latency and accuracy in visual word recognition
Schiepers, C. Response latency and accuracy in visual word recognition
visual word recognition
Schwar H   See Sawiisch   K   Hy localization under conflict conditions 78
Schwab, E. C. See Sawusch, J. R. ity localization under conflict conditions 28 Shaw, R. E. See Mark, L. S. Wastell, D. G., & Kleinman, D. A psychoana-
Shum, K. H. See Wolford, G. tomical investigation of the locus of the
Singer, M. H. The primacy of visual informa- mechanism responsible for the refractoriness
tion in the analysis of letter strings
Smith, A. F. See Green, D. M. Well, A. D. See Rayner, K.
Smith, E. L., III. See Harwerth, R. S. Wenderoth, P. Dot displacements can be de-
Souther, A. F. See Diehl, R. L. ceptive: A reply to Hartley 368
Sperling, G. See Kowler, E. Wenderoth, P. Alignment errors in Poggendorff-
Staller, J. D., Lappin, J. S., & Fox, R. Stim-
ulus uncertainty does not impair stereopsis 361 dot, a dot series, or a line
Stern, K. R. See Braunstein, M. L. Westendorf, D. See Blake, R.
Stevens, J. C., & Marks, L. E. Cross-modality Wolford, G., & Shum, K. H. Evidence for fea-
matching functions generated by magnitude ture perturbations
estimation
Stitt, C. L., Hoffman, H. S., & DeVido, C. J. sensitivity of human newborns: Some data
Modification of the human glabella reflex by with improved acoustic and behavioral con-
antecedent acoustic stimulation
Streibel, M. J., Barnes, R. D., Julness, G. D.,
& Ebenholtz, S. M. Determinants of the rod-
and-frame effect: Role of organization and
subjective contour
Studdert-Kennedy, M. See Remez, R. E.  Swensson, R. G. A two-stage detection model  Symposium on Aging and Human Visual
applied to skilled visual search by radiologists . 11 Function
Swinney, D. A., & Prather, P. Phonemic iden- Fifth Annual Boston University Conference
tification in a phoneme monitoring experi-  Language Development

#### ACKNOWLEDGMENTS

We would like to express our sincere thanks to the special consultants, listed below, who have given freely of their time and counsel.

Edward Adelson, University of Michigan Jacob Beck, University of Oregon Michelle A. Blank, Indiana University at Bloomington H. Bouma, Institute for Perception Research, Eindhoven, The Netherlands Myron Braunstein, University of California, Irvine Bruce Bridgeman, University of California, Santa Cruz R. M. Butler, University of Chicago R. A. Cole, Carnegie Mellon University Max Coltheart, University of London Stanley Coren, University of British Columbia Robert H. Cormack, New Mexico Tech Boris Crassini, University of Queensland Davic V. Cross, SUNY, Stony Brook Peter Dallos, Northwestern University Diana Deutsch, University of California, San Diego Vincent DiLollo, University of Manitoba Peter Dodwell, Queen's University, Kingston D. D. Dorfman, University of Iowa Michael Dorman, Arizona State University W. J. Dowling, University of Texas at Dallas Lois L. Elliott, Northwestern University William K. Estes, Rockefeller University J.-C. Falmagne, New York University Donald J. Foss, University of Texas at Austin Carol A. Fowler, Dartmouth College Paul Fraisse, René Descartes University, Paris Frank Geldard, Princeton University J. Donald Harris, Journal of Auditory Research, Groton Russ Harter, University of North Carolina, Greensboro Ronald S. Harwerth, College of Optometry, University of Ira Hirsh, Washington University Julian Hochberg, Columbia University

F. Nowell Jones, University of California, Los Angeles

Peter W. Jusczyk, Dalhousie University

John M. Kennedy, University of Toronto Larry Kerr, Ohio University Lester Krueger, Ohio State University Ilse Lehiste, Ohio State University Lawrence E. Marks, John B. Pierce Foundation Laboratory Curtis W. McIntyre, Southern Methodist University Philip A. Morse, University of Wisconsin-Madison John Morton, MRC Applied Psychology Unit, Cambridge Conrad G. Mueller, Indiana University at Bloomington Kate Murray, University of California, Los Angeles William O'Hara, University of Illinois at Urbana-Champaign Richard K. Olson, University of Colorado Kevin O'Regan, Centre Nationale de la Recherche Scientifique, Paris George Papcun, University of California, Los Angeles Kenneth Papp, New Mexico State University Robert Porter, Louisiana State University Medical Center Michael I. Posner, University of Oregon Robert B. Post, Pennsylvania State University William Prinzmetal, University of British Columbia Dean Purcell, Oakland University Robert Remez, Indiana University at Bloomington John Rohrbaugh, University of California, Los Angeles James R. Sawusch, SUNY, Buffalo Bertram Scharf, Northeastern University Walter Schneider, University of Illinois at Urbana-Champaign Linda B. Smith, Indiana University at Bloomington Ewart A. C. Thomas, Stanford University Willard R. Thurlow, University of Wisconsin-Madison Hans Wallach, Swarthmore College W. Dixon Ward, University of Minnesota David Warren, University of California, Riverside R. M. Warren, University of Wisconsin-Milwaukee Gerald Wasserman, Purdue University Daniel J. Weintraub, University of Michigan Robert Welch, University of Kansas

# Perception & Psychophysics

Charles W. Eriksen, Editor University of Illinois, Urbana-Champaign

Associate Editors

Edward C. Carterette
University of California, Los Angeles
Robert Fox
Vanderbilt University
Alfred B. Kristofferson
McMaster University

Herschel W. Leibowitz
Pennsylvania State University
David Pisoni
Indiana University, Bloomington
Martha Teghtsoonian
Smith College

### **Consulting Editors**

Lorraine Allan, McMaster University John C. Baird, Dartmouth College William P. Banks, Pomona College Linda M. Bartoshuk, J. B. Pierce Foundation, Yale University Ira H. Bernstein, University of Texas, Arlington Elizabeth L. Bjork, University of California, Los Angeles Randolph Blake, Northwestern University John Lott Brown, University of South Florida Emanuel Donchin, University of Illinois, Champaign S. M. Ebenholtz, University of Wisconsin, Madison Howard E. Egeth, Johns Hopkins University Trygg Engen, Brown University William Epstein, University of Wisconsin, Madison Barbara A. Eriksen, University of Illinois, Champaign Wendell R. Garner, Yale University Barbara Gillam, SUNY, State College of Optometry Walter C. Gogel, University of California, Santa Barbara

David M. Green, Harvard University Lewis O. Harvey, Jr., University of Colorado James E. Hoffman, University of Delaware Tarow Indow, Keio University, Tokyo John Jonides, University of Michigan Ronald Kinchla, Princeton University Sylvan Kornblum, University of Michigan Joseph S. Lappin, Vanderbilt University Willard D. Larkin, University of Maryland Barry Leshowitz, Arizona State University Gregory R. Lockhead, Duke University Dominic Massaro, University of California, Santa Cruz James L. McClelland, University of California, San Diego W. Trammell Neill, University of South Florida Ray Over, University of Queensland, Australia Robert W. Sekuler, Northwestern University Keith White, University of Florida

Eugene R. Wist, University of Düsseldorf, W. Germany

Anne Matson Dossett Managing Editor

Volume 28

Published monthly by

THE PSYCHONOMIC SOCIETY, Inc., 2904 Guadalupe Street, Austin, Texas 78705

Publication No. 427920 (ISSN 0031-5117)

Second Class Postage paid at Austin, Texas 78710

Copyright 1980 and 1981 by THE PSYCHONOMIC SOCIETY, Inc.

### STAFF IN CHAMPAIGN

Gitta Bridges Carolyn M. Savage

## STAFF IN AUSTIN

Lee Anne Aspra
Valerie K. Foster
Nancy Glass
Dreanne M. Grenier
Virginia T. Hagerty
John J. Hartzell, Jr.
E. Melanie W. Kittrell
Patricia J. Kittrell
Richard W. Lambert
Mary K. Plowman
Robert P. Sanford
Sharon Tarver
Roberta L. Thiessen
William Walker
Rodney G. Webre
C. E. Wheeless

## **CONTENTS OF VOLUME 28**

Allan, L. G. See Hayman, C. A. G. Armitage, R. See Earhard, B. Bacharach, V. R. See Bashinski, H. S.		Flatt, A. E. See Kelso, J. A. S. Friedman, C. J. See Pastore, R. E. Friedman, R. B. Identity without form: Abstract	
Ballas, J. A. See Howard, J. H., Jr. Bashinski, H. S., & Bacharach, V. R. Enhancement of perceptual sensitivity as the result of selectively attending to spatial locations.	241	representations of letters	53
Beaton, R. J. See Long, G. M. (2) Bendix, J. S. See Malmstrom, F. V. Biederman, I. See Kriegman, D. H.	21.	choice models of signal detection theory	390
Blank, M. A. Measuring lexical access during sentence processing	1	on perceived spatial arrangement?	527
different spatial frequencies: Is there a 100-msec rule?	599	tion: A developmental study	133
Bregman, A. S., & Steiger, H. Auditory streaming		cues in selective adaptation	103
and vertical localization: Interdependence of		Gogel, W. C. The sensing of retinal motion	155
"what" and "where" decisions in audition	539	Gogel, W. C., & Tietz, J. D. Relative cues and abso-	
Broerse, J., & Crassini, B. The influence of imagery ability on color aftereffects produced by physically		lute distance perception	321
present and imagined induction stimuli	560	Goodman, D. A. See Zwislocki, J. J.	
Butler, R. A., & Flannery, T. The spatial attributes		Grant, K. W. See Sachs, R. M.	
of stimulus frequency and their role in monaural	440	Grosjean, F. Spoken word recognition processes and	
localization of sound in the horizontal plane	449	the gating paradigm	267
Butler, R. A. See Musicant, A. D. Christensen, C. M. Effects of solution viscosity on		Gruenenfelder, T. M., & Pisoni, D. B. Fundamental	
perceived saltiness and sweetness	347	frequency as a cue to postvocalic consonantal voic- ing: Some data from speech perception and pro-	
Christensen, C. M. Effects of taste quality and inten-	2000	duction	514
sity on oral perception of viscosity	315	Hafter, E. R. See Johnson, D. M.	214
Corso, G. M. Auditory temporal order and perceived		Halpern, D. F., & Warm, J. S. The disappearance of	
fusion-nonfusion	465	real and subjective contours	229
Crassini, B. See Broerse, J.		Handel, S., Imai, S., & Spottswood, P. Dimensional,	
Cutting, J. E. See Proffitt, D. R.		similarity, and configural classification of integral	
Czigler, I., & Tölgyesi, M. Changes in perceived con-		and separable stimuli	205
trast, reaction time, and pattern-specific evoked	150	Handel, S., & Rhodes, J. W. Free classification:	
potentials due to stimulus duration	458	Element-level and subgroup-level similarity	249
Day, R. H., Stuart, G. W., & Dickinson, R. G.	262	Harrington, M. K. See Harrington, T. L.	
Size constancy does not fail below half a degree  Day, R. H. See Rozvany, G. I. N.	263	Harrington, T. L., Harrington, M. K., Wilkins, C. A., & Koh, Y. O. Visual orientation by motion-produced	
Degelman, D. See Rosinski, R. R.		blur patterns: Detection of divergence	293
Deutsch, D. The processing of structured and un-		Harris, L. B. See Pastore, R. E. (2)	673
structured tonal sequences	381	Hayman, C. A. G., & Allan, L. G. A reevaluation of	
Dickinson, R. G. See Day, R. H.		angle-contingent color aftereffects	61
Earhard, B. The line-in-object superiority effect in		Held, R. See Wolfe, J. M.	
perception: It depends on where you fix your eyes		Henderson, L. Is there a lexicality component in the	
and what is located at the point of fixation	9	word superiority effect?	179
Earhard, B., & Armitage, R. From an object- superiority effect to an object-inferiority effect		Hochberg, J. See Girgus, J. S. Holt, K. G. See Kelso, J. A. S.	
with movement of the fixation point	369	Howard, J. H., Jr., & Ballas, J. A. Syntactic and se-	
Egeth, H. E. See Santee, J. L.		mantic factors in the classification of nonspeech	
Eriksen, C. W. The use of a visual mask may seriously		transient patterns	431
confound your experiment	89	Howell, E. R. See Stanley, G.	
Falk, D. S., & Williams, R. Dynamic visual noise and		Iaccino, J. See Milewski, A. E.	
the stereophenomenon: Interocular time delays,	10	Imai, S. See Handel, S.	
depth, and coherent velocities Farber, J. See Rosinski, R. R.	19	Jesteadt, W. An adaptive procedure for subjective	0.5
Favreau, O. E. Reply to Potts and Harris	254	judgments  Johnson, D. M., & Hafter, E. R. Uncertain-frequency	85
Flannery, R. See Butler, R. A.	237	detection: Cuing and condition of observation	143

Jones, B. Algebraic models for integration of painful		Osman, E., Tzuo, H., & Tzuo, P. L. Weber's law,	
and nonpainful electric shocks	572	the "near miss," and binaural detection	354
Kelso, J. A. S., Holt, K. G., & Flatt, A. E. The role		Owen, D. H. See Tei, B. E.	
of proprioception in the perception and control of		Parker, D. M. Simple reaction times to the onset,	
human movement: Toward a theoretical reassess-		offset, and contrast reversal of sinusoidal grating	
ment	45	stimuli	365
Kerkhof, G. A., van der Schaaf, T. W., & Korving,		Parker, S., & Schneider, B. Loudness and loudness	
H. J. Auditory signal detection: Effects of long-		discrimination	398
term practice and time on task	79	Pastore, R. E., Harris, L. B., & Friedman, C. J.	
Kertesz, A. E. See Sabrin, H. W.		Contralateral auditory change masking	488
Kettner, R. E., Shannon, R. V., Nguyen, T. M., &		Pastore, R. E., Harris, L. B., & Goldstein, L. Audi-	
Thompson, R. F. Simultaneous behavioral and		tory forward and backward masking interaction	547
neural (cochlear nucleus) measurement during sig-		Pentland, A. Maximum likelihood estimation: The	
nal detection in the rabbit	504	best PEST	377
Koh, Y. O. See Harrington, T. L.		Pick, H. L., Jr. See Rieser, J. J.	
Korving, H. J. See Kerkhof, G. A.		Pisoni, D. B. Adaptation of the relative onset time of	
Kriegman, D. H., & Biederman, I. How many letters		two-component tones	337
in Bidwell's ghost? An investigation of the upper		Pisoni, D. B. See Gruenenfelder, T. M.	
limits of full report from a brief visual stimulus	82	Post, R. B. See Leibowitz, H. W.	
Krueger, L. E., & Shapiro, R. G. Repeating the tar-		Proffitt, D. R., & Cutting, J. E. Perceiving the cen-	
get neither speeds nor slows its detection: Evidence		troid of curvilinearly bounded rolling shapes	484
for independent channels in letter processing	68	Randle, R. J. See Malmstrom, F. V.	
Kunen, S., & May, J. G. Spatial frequency content		Reeves, A. Visual imagery in backward masking	118
of visual imagery	555	Reinhardt-Rutland, A. H. Two auditory aftereffects	
Lawry, J. A. The interfering effect of word percep-		and their dependency on carrier frequency	569
tion on letter identification	577	Remole, A. A simple demonstration of border domi-	
Leibowitz, H. W., Post, R. B., Rodemer, C. S.,		nance in binocular rivalry	77
Wadlington, W. L., & Lundy, R. M. Roll vection		Repp, B. H. See Mann, V. A.	
analysis of suggestion-induced visual field narrowing	173	Rhodes, J. W. See Handel, S.	
Lockman, J. J. See Rieser, J. J.		Rieser, J. J., Lockman, J. J., & Pick, H. L., Jr.	
Long, G. M., & Beaton, R. J. The contribution of		The role of visual experience in knowledge of spa-	
visual persistence to the perceived duration of brief		tial layout	185
targets	422	Rodemer, C. S. See Leibowitz, H. W.	
Long, G. M., & Beaton, R. J. The effects of spatial		Rosinski, R. R., Mulholland, T., Degelman, D., &	
frequency and target type on perceived duration	413	Farber, J. Picture perception: An analysis of visual	
Lovegrove, W. See Bowling, A.		compensation	521
Lundy, R. M. See Leibowitz, H. W.		Rozvany, G. I. N., & Day, R. H. Determinants of	
Malmstrom, F. V., Randle, R. J., Bendix, J. S., &		the Bourdon effect	39
Weber, R. J. The visual accommodation response		Sabrin, H. W., & Kertesz, A. E. Microsaccadic eye	
during concurrent mental activity	440	movements and binocular rivalry	150
Mann, V. A. Influence of preceding liquid on stop-		Sachs, R. M., Miller, J. D., & Grant, K. W. Per-	
consonant perception	407	ceived magnitude of multiple electrocutaneous	
Mann, V. A., & Repp, B. H. Influence of vocalic		pulses	255
context on perception of the [5]-[8] distinction	213	Salis, D. L. Laterality effects with visual perception	
May, J. G. See Kunen, S.		of musical chords and dot patterns	284
Milewski, A. E., Iaccino, J., & Smith, D. Checker-		Santee, J. L., & Egeth, H. E. Selective attention in	
board-specific color aftereffects: A failure to find		the speeded classification and comparison of multi-	
effects of perceptual organization	329	dimensional stimuli.	191
Miller, J. D. See Sachs, R. M.		Schneider, B. Individual loudness functions deter-	
Miller, J. L. Contextual effects in the discrimination		mined from direct comparisons of loudness intervals	493
of stop consonant and semivowel	93	Schneider, B. See Parker, S.	
Miller, R. J. Ocular vergence-induced accommodation		Searle, C. L. See Shelton, B. R.	
and its relation to dark focus	125	Shannon, R. V. See Kettner, R. E.	
Mulholland, T. See Rosinski, R. R.		Shapiro, R. G. See Krueger, L. E.	
Mulligan, R. M., & Shaw, M. L. Multimodal signal	40.	Shaw, M. L. See Mulligan, R. M.	
detection: Independent decisions vs. integration	471	Shelton, B. R., & Searle, C. L. The influence of vision	
Musicant, A. D., & Butler, R. A. Monaural localiza-	224	on the absolute identification of sound-source po-	POV
tion: An analysis of practice effects	236	sition	589
Nguyen, T. M. See Kettner, R. E.		Smith, D. See Milewski, A. E.	
Nolan, K. A. See Wingfield, A.	200	Smith, G. See Stanley, G.	
Norman, J. Direct and indirect perception of size	306	Smith, L. B. Development and the continuum of	10
O'Regan, J. K. The control of saccade size and fixa-		dimensional separability	164
tion duration in reading: The limits of linguistic	112	Spottswood, P. See Handel, S.	
control	112	Stanley, G., Howell, E. R., & Smith, G. Stimulus	

duration and grating persistence: An instance of		Wilkins, C. A. See Harrington, T. L.	
the 100-msec rule?	597	Williams, R. See Falk, D. S.	
Steiger, H. See Bregman, A. S.		Wingfield, A., & Nolan, K. A. Spontaneous seg-	
Stuart, G. W. See Day, R. H.		mentation in normal and in time-compressed speech	97
Tei, B. E., & Owen, D. H. Laterality differences in		Wolfe, J. M., & Held, R. Cyclopean stimulation can	
sensitivity to line orientation as a function of adap-		influence sensations of self-motion in normal and	
tation duration	479	stereoblind subjects	139
Thompson, R. F. See Kettner, R. E.		Yelen, D. R. A catastrophe model for the effects of	
Tietz, J. D. See Gogel, W. C.		a response set on a discrimination task	177
Tolgyesi, M. See Czigler, I.		Zwislocki, J. J., & Goodman, D. A. Absolute scaling	
Tzuo, H. See Osman, E.		of sensory magnitudes: A validation	28
Tzuo, P. L. See Osman, E.			
van der Schaaf, T. W. See Kerkhof, G. A.			
Wadlington, W. L. See Leibowitz, H. W.			
Wallace, B. Factors affecting proprioceptive adapta-		Notices and Announcements	
tion to prismatic displacement	550	Editorship nominations	96
Warm, J. S. See Halpern, D. F.		National Conference on the Use of On-Line Com-	
Weber, R. J. See Malmstrom, F. V.		puters in Psychology	266

### **ACKNOWLEDGEMENTS**

We would like to express our sincere thanks to the special consultants, listed below, who have given freely of their time and counsel.

Fred Attneave, University of Oregon Michael Birnbaum, University of Illinois H. Bouma, Institute for Perception Research, Eindhoven, The Netherlands Albert S. Bregman, McGill University R. M. Butler, University of Chicago William Cain, John B. Pierce Foundation Laboratory R. A. Cole, Carnegie Mellon University D. V. Cross, SUNY, Stony Brook Raymond Daniloff, Purdue University J. B. Davies, University of Strathclyde Diana Deutsch, University of California, San Diego Randy Diehl, University of Texas, Austin Vincent DiLollo, University of Manitoba P. L. Divenyi, VA Hospital, Martinez, California D. D. Dorfman, University of Iowa Hannes Eisler, University of Stockholm Gilmore Glover, Case Western Reserve University John D. Gould, IBM, Yorktown Heights, New York G. R. Grice, University of New Mexico W. L. Gulick, Hamilton College Eric Holman, UCLA Ian P. Howard, York University Larry Humes, Vanderbilt University Walt Jesteadt, Human Communications Lab, Omaha Neal F. Johnson, Ohio State University Peter W. Jusczyk, Dalhousie University Lloyd Kaufman, New York University Diane Kewley-Port, Indiana University

Lester Krueger, Ohio State University Lawrence E. Marks, John B. Pierce Foundation Laboratory Donald McBurney, University of Pittsburgh George McConkie, University of Illinois Dennis McFadden, University of Texas, Austin Curtis W. McIntyre, Southern Methodist University Richard E. Pastore, SUNY, Binghamton Irwin Pollack, University of Michigan Robert H. Pollack, University of Georgia E. Pugh, University of Pennsylvania Keith Rayner, University of Rochester Robert E. Remez, Barnard College Bruno Repp, Haskins Laboratories Lorrin A. Riggs, Brown University John Rohrbaugh, UCLA James R. Sawusch, SUNY, Buffalo Walter Schneider, University of Illinois Roger N. Shepard, Stanford University Carl E. Sherrick, Princeton University Ewart A. C. Thomas, Stanford University Willard R. Thurlow, University of Wisconsin Ann Treisman, University of British Columbia C. W. Tyler, Smith-Kettlewell Institute Hans Wallach, Swarthmore College David Warren, University of California, Riverside R. M. Warren, University of Wisconsin-Milwaukee Gerald Wasserman, Purdue University William Yund, VA Center, Martinez, California

